

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	19	(Andrew near Marks.in.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/22 16:32
L2	16	(ryanodine adj1 receptor or RyR2) and (arrythmia or atrial adj1 tachyarrythmia or atrial adj1 fibrillation)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/22 16:28
L3	12	(ryanodine adj1 receptor or RyR2) and "FKBP12.6"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/22 16:29
L4	13	jtv near "519"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/22 16:30

(FILE 'HOME' ENTERED AT 16:02:52 ON 22 APR 2005)

FILE 'STNGUIDE' ENTERED AT 16:02:59 ON 22 APR 2005

FILE 'MEDLINE' ENTERED AT 16:03:15 ON 22 APR 2005

L1 142 S (MARKS, A.? OR MARKS A.?) /AU

L2 3246 S RYANODINE RECEPTOR OR RYR2 AND (ATRIAL TACHYARRHYTHMIA OR CAR

L3 131 S L2 AND (FKBP12.6 OR PROTEIN KINASE A OR PKA)

L4 8 S L1 AND L3

L5 65 S L3 AND PHOSPHORYLATION

L6 11 S JTV-519

FILE 'MEDLINE' ENTERED AT 16:03:15 ON 22 APR 2005

FILE LAST UPDATED: 21 APR 2005 (20050421/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>  
[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (Marks, A.? or Marks A.?) /au  
142 MARKS, A.?? /AU  
142 MARKS A.?? /AU  
L1 142 (MARKS, A.?? OR MARKS A.??) /AU  
  
=> s ryanodine receptor or RyR2 and (atrial tachyarrhythmia or cardiac arrhythmia or atrial fibrillation)  
5640 RYANODINE  
2 RYANODINES  
5640 RYANODINE  
(RYANODINE OR RYANODINES)  
490673 RECEPTOR  
528117 RECEPTORS  
690681 RECEPTOR  
(RECEPTOR OR RECEPTORS)  
3246 RYANODINE RECEPTOR  
(RYANODINE (W) RECEPTOR)  
238 RYR2  
81542 ATRIAL  
1536 TACHYARRHYTHMIA  
4029 TACHYARRHYTHMIAS  
5114 TACHYARRHYTHMIA  
(TACHYARRHYTHMIA OR TACHYARRHYTHMIAS)  
531 ATRIAL TACHYARRHYTHMIA  
(ATRIAL (W) TACHYARRHYTHMIA)  
311164 CARDIAC  
121 CARDIACS  
311264 CARDIAC  
(CARDIAC OR CARDIACS)  
63369 ARRHYTHMIA  
27274 ARRHYTHMIAS  
74270 ARRHYTHMIA  
(ARRHYTHMIA OR ARRHYTHMIAS)  
7570 CARDIAC ARRHYTHMIA  
(CARDIAC (W) ARRHYTHMIA)  
81542 ATRIAL  
38405 FIBRILLATION  
346 FIBRILLATIONS  
38606 FIBRILLATION  
(FIBRILLATION OR FIBRILLATIONS)  
21014 ATRIAL FIBRILLATION  
(ATRIAL (W) FIBRILLATION)  
L2 3246 RYANODINE RECEPTOR OR RYR2 AND (ATRIAL TACHYARRHYTHMIA OR CARDIAC ARRHYTHMIA OR ATRIAL FIBRILLATION)  
  
=> s L2 and (FKBP12.6 or protein kinase A or PKA)  
502 FKBP12  
1678002 6

72 FKBP12.6  
(FKBP12(W)6)  
1385548 PROTEIN  
1151738 PROTEINS  
1760537 PROTEIN  
(PROTEIN OR PROTEINS)  
212840 KINASE  
99112 KINASES  
233495 KINASE  
(KINASE OR KINASES)  
8141935 A  
8528 PROTEIN KINASE A  
(PROTEIN(W) KINASE(W)A)  
10700 PKA  
157 PKAS  
10771 PKA  
(PKA OR PKAS)  
L3 131 L2 AND (FKBP12.6 OR PROTEIN KINASE A OR PKA)

=> s L1 and L3  
L4 8 L1 AND L3

=> s L3 and phosphorylation  
114984 PHOSPHORYLATION  
1163 PHOSPHORYLATIONS  
115169 PHOSPHORYLATION  
(PHOSPHORYLATION OR PHOSPHORYLATIONS)  
L5 65 L3 AND PHOSPHORYLATION

=> s JTV-519  
37 JTV  
3111 519  
L6 11 JTV-519  
(JTV(W) 519)

=> d L4 1-8

L4 ANSWER 1 OF 8 MEDLINE on STN  
AN 2003357997 MEDLINE  
DN PubMed ID: 12824280  
TI Defects in **ryanodine receptor** calcium release in skeletal muscle from post-myocardial infarct rats.  
AU Ward C W; Reiken S; **Marks A R**; Marty I; Vassort G; Lacampagne A  
CS Department of Biochemistry and Molecular Biology, University of Maryland School of Medicine, Baltimore, USA.  
SO FASEB journal : official publication of the Federation of American Societies for Experimental Biology, (2003 Aug) 17 (11) 1517-9. Electronic Publication: 2003-06-03.  
Journal code: 8804484. ISSN: 1530-6860.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200308  
ED Entered STN: 20030801  
Last Updated on STN: 20030812  
Entered Medline: 20030811

L4 ANSWER 2 OF 8 MEDLINE on STN  
AN 2001687905 MEDLINE  
DN PubMed ID: 11733405  
TI beta-adrenergic receptor blockers restore cardiac calcium release channel (**ryanodine receptor**) structure and function in heart failure.  
AU Reiken S; Gaburjakova M; Gaburjakova J; He Kl K L; Prieto A; Becker E; Yi Gh G H; Wang J; Burkhoff D; **Marks A R**  
CS Center for Molecular Cardiology, Department of Pharmacology, Circulatory Physiology Division, Department of Medicine, Columbia University College

SO of Physicians and Surgeons, New York, NY, USA.  
Circulation, (2001 Dec 4) 104 (23) 2843-8.  
Journal code: 0147763. ISSN: 1524-4539.

CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200201  
ED Entered STN: 20011206  
Last Updated on STN: 20020125  
Entered Medline: 20020111

L4 ANSWER 3 OF 8 MEDLINE on STN  
AN 2001671271 MEDLINE  
DN PubMed ID: 11717156  
TI Dilated cardiomyopathy and sudden death resulting from constitutive activation of **protein kinase a**.  
CM Comment in: Circ Res. 2001 Nov 23;89(11):938-40. PubMed ID: 11717148  
AU Antos C L; Frey N; Marx S O; Reiken S; Gaburjakova M; Richardson J A;  
**Marks A R**; Olson E N  
CS Department of Molecular Biology, University of Texas, Southwestern Medical Center at Dallas, Texas, USA.  
SO Circulation research, (2001 Nov 23) 89 (11) 997-1004.  
Journal code: 0047103. ISSN: 1524-4571.

CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200112  
ED Entered STN: 20011122  
Last Updated on STN: 20020123  
Entered Medline: 20011207

L4 ANSWER 4 OF 8 MEDLINE on STN  
AN 2001329719 MEDLINE  
DN PubMed ID: 11397781  
TI Coupled gating between cardiac calcium release channels (**ryanodine receptors**).  
AU Marx S O; Gaburjakova J; Gaburjakova M; Henrikson C; Ondrias K; **Marks A R**  
CS Center for Molecular Cardiology, Department of Medicine, Columbia University College of Physicians and Surgeons, New York, NY 10032, USA.  
SO Circulation research, (2001 Jun 8) 88 (11) 1151-8.  
Journal code: 0047103. ISSN: 1524-4571.

CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200107  
ED Entered STN: 20010716  
Last Updated on STN: 20010716  
Entered Medline: 20010712

L4 ANSWER 5 OF 8 MEDLINE on STN  
AN 2001274362 MEDLINE  
DN PubMed ID: 11279144  
TI FKBP12 binding modulates **ryanodine receptor** channel gating.  
AU Gaburjakova M; Gaburjakova J; Reiken S; Huang F; Marx S O; Rosemblit N;  
**Marks A R**  
CS Center for Molecular Cardiology and Department of Medicine, Columbia University College of Physicians and Surgeons, New York, New York 10032, USA.  
NC RO1 AI39794 (NIAID)  
RO1 HL56180 (NHLBI)  
RO1 HL61503 (NHLBI)  
RO3 TW00949 (FIC)  
SO Journal of biological chemistry, (2001 May 18) 276 (20) 16931-5.

Electronic Publication: 2001-03-01.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200107  
ED Entered STN: 20010709  
Last Updated on STN: 20030105  
Entered Medline: 20010705

L4 ANSWER 6 OF 8 MEDLINE on STN  
AN 2001187255 MEDLINE  
DN PubMed ID: 11273716  
TI **Ryanodine receptors/calcium release channels in heart failure and sudden cardiac death.**  
AU **Marks A R**  
CS Center for Molecular Cardiology, Department of Pharmacology, Columbia University College of Physicians and Surgeons, New York, NY 10032, USA..  
arm42@columbia.edu  
NC RO1 AI39794 (NIAID)  
RO1 HL56180 (NHLBI)  
RO1 HL61503 (NHLBI)  
RO3 TW00949 (FIC)  
SO Journal of molecular and cellular cardiology, (2001 Apr) 33 (4) 615-24.  
Ref: 90  
Journal code: 0262322. ISSN: 0022-2828.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200106  
ED Entered STN: 20010618  
Last Updated on STN: 20010618  
Entered Medline: 20010614

L4 ANSWER 7 OF 8 MEDLINE on STN  
AN 2000288976 MEDLINE  
DN PubMed ID: 10830164  
TI **PKA phosphorylation dissociates FKBP12.6 from the calcium release channel (ryanodine receptor): defective regulation in failing hearts.**  
AU Marx S O; Reiken S; Hisamatsu Y; Jayaraman T; Burkhoff D; Rosemblit N;  
**Marks A R**  
CS Center for Molecular Cardiology, Department of Medicine, College of Physicians and Surgeons of Columbia University, New York, New York 10032, USA.  
NC RO1 AI39794 (NIAID)  
RO1 HL56180 (NHLBI)  
RO1 HL61503 (NHLBI)  
+  
SO Cell, (2000 May 12) 101 (4) 365-76.  
Journal code: 0413066. ISSN: 0092-8674.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200006  
ED Entered STN: 20000629  
Last Updated on STN: 20000629  
Entered Medline: 20000616

L4 ANSWER 8 OF 8 MEDLINE on STN  
AN 96315614 MEDLINE  
DN PubMed ID: 8757784  
TI Cellular functions of immunophilins.

AU Marks A R  
CS Laboratory of Molecular Cardiology, Cardiovascular Institute, Department  
of Medicine, Mount Sinai School of Medicine, New York, USA.  
NC R01-NS-29814 (NINDS)  
SO Physiological reviews, (1996 Jul) 76 (3) 631-49. Ref: 161  
Journal code: 0231714. ISSN: 0031-9333.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
LA English  
FS Priority Journals  
EM 199609  
ED Entered STN: 19961008  
Last Updated on STN: 19961008  
Entered Medline: 19960925

=> s L6 1-11  
MISSING OPERATOR L6 1-11  
The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

=> d L6 1-11

L6 ANSWER 1 OF 11 MEDLINE on STN  
AN 2004430354 MEDLINE  
DN PubMed ID: 15336601  
TI Annexin V disruption impairs mechanically induced calcium signaling in  
osteoblastic cells.  
AU Haut Donahue T L; Genetos D C; Jacobs C R; Donahue H J; Yellowley C E  
CS Department of Mechanical Engineering-Engineering Mechanics, Michigan  
Technological University, Houghton, MI 49931, USA.  
NC 1R01 AG22305-01 (NIA)  
SO Bone, (2004 Sep) 35 (3) 656-63.  
Journal code: 8504048. ISSN: 8756-3282.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200503  
ED Entered STN: 20040901  
Last Updated on STN: 20050323  
Entered Medline: 20050322

L6 ANSWER 2 OF 11 MEDLINE on STN  
AN 2003358277 MEDLINE  
DN PubMed ID: 12890053  
TI Antiarrhythmic effects of **JTV-519**, a novel  
cardioprotective drug, on atrial fibrillation/flutter in a canine sterile  
pericarditis model.  
AU Kumagai Koichiro; Nakashima Hideko; Gondo Naoki; Saku Keijiro  
CS Department of Cardiology, School of Medicine, Fukuoka University, Fukuoka,  
Japan.. kxk@fukuoka-u.ac.jp  
SO Journal of cardiovascular electrophysiology, (2003 Aug) 14 (8) 880-4.  
Journal code: 9010756. ISSN: 1045-3873.  
CY United States  
DT (EVALUATION STUDIES)  
Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200401  
ED Entered STN: 20030801  
Last Updated on STN: 20040131  
Entered Medline: 20040130

L6 ANSWER 3 OF 11 MEDLINE on STN  
AN 2002716446 MEDLINE  
DN PubMed ID: 12359358

TI Reversal of P-glycoprotein mediated multidrug resistance by a newly synthesized 1,4-benzothiazepine derivative, **JTV-519**.  
AU Che Xiao-Fang; Nakajima Yuichi; Sumizawa Tomoyuki; Ikeda Ryuji; Ren Xiao-Qin; Zheng Chun-Lei; Mukai Motoi; Furukawa Tatsuhiko; Haraguchi Misako; Gao Hui; Sugimoto Yoshikazu; Akiyama Shin-ichi  
CS Department of Cancer Chemotherapy, Institute for Cancer Research, Faculty of Medicine, Kagoshima University, 8-35-1 Sakuragaoka, Kagoshima 890-8520, Japan.  
SO Cancer letters, (2002 Dec 10) 187 (1-2) 111-9.  
Journal code: 7600053. ISSN: 0304-3835.  
CY Ireland  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200301  
ED Entered STN: 20021218  
Last Updated on STN: 20030118  
Entered Medline: 20030106

L6 ANSWER 4 OF 11 MEDLINE on STN  
AN 2002305652 MEDLINE  
DN PubMed ID: 12047047  
TI A novel cardioprotective agent, **JTV-519**, is abolished by nitric oxide synthase inhibitor on myocardial metabolism in ischemia-reperfused rabbit hearts.  
AU Kawabata Hitoshi; Nakagawa Kizuku; Ishikawa Kinji  
CS First Department of Internal Medicine, Kinki University School of Medicine, Osakasayama, Japan.. int1@med.kindai.ac.jp  
SO Hypertension research : official journal of the Japanese Society of Hypertension, (2002 Mar) 25 (2) 303-9.  
Journal code: 9307690. ISSN: 0916-9636.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200211  
ED Entered STN: 20020606  
Last Updated on STN: 20021211  
Entered Medline: 20021113

L6 ANSWER 5 OF 11 MEDLINE on STN  
AN 2002030420 MEDLINE  
DN PubMed ID: 11757794  
TI **JTV-519** Japan Tobacco.  
AU Tse H F; Lam W F  
CS Queen Mary Hospital, University Department of Medicine, Pokfulam, Hong Kong.. hftse@hkucc.hku.hk  
SO Current opinion in investigational drugs (London, England : 2000), (2001 Jul) 2 (7) 936-9. Ref: 33  
Journal code: 100965718. ISSN: 1472-4472.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200206  
ED Entered STN: 20020124  
Last Updated on STN: 20020623  
Entered Medline: 20020621

L6 ANSWER 6 OF 11 MEDLINE on STN  
AN 2001372778 MEDLINE  
DN PubMed ID: 11429046  
TI Reversal of cisplatin resistance by the 1,4-benzothiazepine derivative, **JTV-519**.  
AU Nakamura T; Koizumi F; Kaneko N; Tamura T; Chiwaki F; Koh Y; Akutagawa S; Saijo N; Nishio K

CS Pharmacology Division, National Cancer Center Research Institute, Chuo-ku,  
Tokyo 104-0045, Japan.

SO Japanese journal of cancer research : Gann, (2001 Jun) 92 (6) 597-602.  
Journal code: 8509412. ISSN: 0910-5050.

CY Japan

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200108

ED Entered STN: 20010903  
Last Updated on STN: 20010903  
Entered Medline: 20010830

L6 ANSWER 7 OF 11 MEDLINE on STN  
AN 2001096979 MEDLINE  
DN PubMed ID: 11090108

TI Inhibitory effects of **JTV-519**, a novel  
cardioprotective drug, on potassium currents and experimental atrial  
fibrillation in guinea-pig hearts.

AU Nakaya H; Furusawa Y; Ogura T; Tamagawa M; Uemura H  
CS Department of Pharmacology, Chiba University School of Medicine, Inohana  
1-8-1, Chuo-ku, Chiba 260-8670, Japan.. nakaya@med.m.chiba-u.ac.jp

SO British journal of pharmacology, (2000 Dec) 131 (7) 1363-72.  
Journal code: 7502536. ISSN: 0007-1188.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200102

ED Entered STN: 20010322  
Last Updated on STN: 20010322  
Entered Medline: 20010201

L6 ANSWER 8 OF 11 MEDLINE on STN  
AN 2000507786 MEDLINE  
DN PubMed ID: 11059618

TI Effect of a novel cardioprotective agent, **JTV-519**, on  
metabolism, contraction and relaxation in the ischemia-reperfused rabbit  
heart.

AU Kawabata H; Ryomoto T; Ishikawa K  
CS First Department of Internal Medicine, Kinki University School of  
Medicine, Osakasayama, Japan.

SO Japanese circulation journal, (2000 Oct) 64 (10) 772-6.  
Journal code: 7806868. ISSN: 0047-1828.

CY Australia

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200103

ED Entered STN: 20010404  
Last Updated on STN: 20010404  
Entered Medline: 20010301

L6 ANSWER 9 OF 11 MEDLINE on STN  
AN 2000497450 MEDLINE  
DN PubMed ID: 10882040

TI Effects of **JTV-519**, a novel anti-ischaemic drug, on  
the delayed rectifier K<sup>+</sup> current in guinea-pig ventricular myocytes.

AU Kiriyma K; Kiyosue T; Wang J C; Dohi K; Arita M  
CS Department of Physiology, Oita Medical University, Hasama, Japan.

SO Naunyn-Schmiedeberg's archives of pharmacology, (2000 Jun) 361 (6) 646-53.  
Journal code: 0326264. ISSN: 0028-1298.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200010

ED Entered STN: 20001027

Last Updated on STN: 20001027

Entered Medline: 20001019

L6 ANSWER 10 OF 11 MEDLINE on STN  
AN 2000324985 MEDLINE  
DN PubMed ID: 10864882  
TI **JTV-519**, a novel cardioprotective agent, improves the contractile recovery after ischaemia-reperfusion in coronary perfused guinea-pig ventricular muscles.  
AU Ito K; Shigematsu S; Sato T; Abe T; Li Y; Arita M  
CS Department of Physiology, Oita Medical University, 1-1 Idaigaoka, Hasama, Oita 879-5593, Japan.  
SO British journal of pharmacology, (2000 Jun) 130 (4) 767-76.  
Journal code: 7502536. ISSN: 0007-1188.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200008  
ED Entered STN: 20000811  
Last Updated on STN: 20000811  
Entered Medline: 20000802

L6 ANSWER 11 OF 11 MEDLINE on STN  
AN 1999245885 MEDLINE  
DN PubMed ID: 10230854  
TI Effects of a novel cardioprotective drug, **JTV-519**, on membrane currents of guinea pig ventricular myocytes.  
AU Kimura J; Kawahara M; Sakai E; Yatabe J; Nakanishi H  
CS Department of Pharmacology, School of Medicine, Fukushima Medical University, Japan.  
SO Japanese journal of pharmacology, (1999 Mar) 79 (3) 275-81.  
Journal code: 2983305R. ISSN: 0021-5198.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199906  
ED Entered STN: 19990628  
Last Updated on STN: 19990628  
Entered Medline: 19990611

=> d L5 1-65

L5 ANSWER 1 OF 65 MEDLINE on STN  
AN 2005205826 IN-PROCESS  
DN PubMed ID: 15754088  
TI Sorcin interacts with sarcoplasmic reticulum Ca<sup>2+</sup>-ATPase and modulates excitation-contraction coupling in the heart.  
AU Matsumoto T; Hisamatsu Y; Ohkusa T; Inoue N; Sato T; Suzuki S; Ikeda Y; Matsuzaki M  
CS Division of Cardiovascular Medicine, Department of Medical Bioregulation, Yamaguchi University Graduate, School of Medicine, 1-1-1 Minami-kogushi, Ube Yamaguchi 755-8505, Japan,. d004rn@yamaguchi-u.ac.jp  
SO Basic research in cardiology, (2005 May) 100 (3) 250-62. Electronic Publication: 2005-03-09.  
Journal code: 0360342. ISSN: 0300-8428.  
CY Germany: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS NONMEDLINE; IN-DATA-REVIEW; IN-PROCESS; NONINDEXED; Priority Journals  
ED Entered STN: 20050421  
Last Updated on STN: 20050421

L5 ANSWER 2 OF 65 MEDLINE on STN  
AN 2005103931 MEDLINE  
DN PubMed ID: 15734609

TI Left ventricular assist device support normalizes left and right ventricular beta-adrenergic pathway properties.  
AU Klotz Stefan; Barbone Alessandro; Reiken Steven; Holmes Jeffrey W; Naka Yoshifumi; Oz Mehmet C; Marks Andrew R; Burkhoff Daniel  
CS Department of Medicine, College of Physicians and Surgeons, Columbia University, New York, New York, USA.  
NC P01-HL67849 (NHLBI)  
R01-HL56180 (NHLBI)  
R01-HL61503 (NHLBI)  
SO Journal of the American College of Cardiology, (2005 Mar 1) 45 (5) 668-76.  
Journal code: 8301365. ISSN: 0735-1097.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200503  
ED Entered STN: 20050301  
Last Updated on STN: 20050401  
Entered Medline: 20050331

L5 ANSWER 3 OF 65 MEDLINE on STN  
AN 2005080783 IN-PROCESS  
DN PubMed ID: 15709953  
TI Intracellular calcium release and cardiac disease.  
AU Wehrens Xander H T; Lehnart Stephan E; Marks Andrew R  
CS Department of Physiology and Cellular Biophysics, Center for Molecular Cardiology, Department of Medicine, Columbia University College of Physicians and Surgeons, New York 10032; email: xw80@columbia.edu , sel2004@columbia.edu , arm42@columbia.edu  
SO Annual review of physiology, (2005) 67 69-98.  
Journal code: 0370600. ISSN: 0066-4278.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS NONMEDLINE; IN-DATA-REVIEW; IN-PROCESS; NONINDEXED; Priority Journals  
ED Entered STN: 20050216  
Last Updated on STN: 20050216

L5 ANSWER 4 OF 65 MEDLINE on STN  
AN 2005080581 IN-PROCESS  
DN PubMed ID: 15709678  
TI Phosphorylation of ryanodine receptors.  
AU Danila Cristina I; Hamilton Susan L  
CS Department of Molecular Physiology and Biophysics, Baylor College of Medicine, Houston, TX 77030, USA.  
SO Biological research, (2004) 37 (4) 521-5.  
Journal code: 9308271. ISSN: 0716-9760.  
CY Chile  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS NONMEDLINE; IN-PROCESS; NONINDEXED; Priority Journals  
ED Entered STN: 20050216  
Last Updated on STN: 20050216

L5 ANSWER 5 OF 65 MEDLINE on STN  
AN 2004505092 MEDLINE  
DN PubMed ID: 15242835  
TI Adenylyl cyclase type VI corrects cardiac sarcoplasmic reticulum calcium uptake defects in cardiomyopathy.  
AU Tang Tong; Gao Mei Hua; Roth David M; Guo Tracy; Hammond H Kirk  
CS Department of Medicine, 111A, VA San Diego Healthcare System, 3350 La Jolla Village Dr., San Diego, CA 92161, USA.  
NC 1P01-HL-669411 (NHLBI)  
SO American journal of physiology. Heart and circulatory physiology, (2004 Nov) 287 (5) H1906-12. Electronic Publication: 2004-07-08.  
Journal code: 100901228. ISSN: 0363-6135.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)

LA English  
FS Priority Journals  
EM 200411  
ED Entered STN: 20041013  
Last Updated on STN: 20041219  
Entered Medline: 20041124

L5 ANSWER 6 OF 65 MEDLINE on STN  
AN 2004452781 MEDLINE  
DN PubMed ID: 15262999  
TI cAMP potentiates ATP-evoked calcium signaling in human parotid acinar cells.  
AU Brown David A; Bruce Jason I E; Straub Stephen V; Yule David I  
CS Department of Pharmacology & Physiology, School of Medicine and Dentistry, University of Rochester Medical Center, Rochester, New York 14642, USA.  
NC PO1-DE13539 (NIDCR)  
R01-DE14756 (NIDCR)  
R01-DK-54568 (NIDDK)  
T32-DE-07202 (NIDCR)  
SO Journal of biological chemistry, (2004 Sep 17) 279 (38) 39485-94.  
Electronic Publication: 2004-07-19.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200410  
ED Entered STN: 20040914  
Last Updated on STN: 20041026  
Entered Medline: 20041025

L5 ANSWER 7 OF 65 MEDLINE on STN  
AN 2004430265 MEDLINE  
DN PubMed ID: 15336974  
TI Calstabin deficiency, **ryanodine receptors**, and sudden cardiac death.  
AU Lehnart Stephan E; Wehrens Xander H T; Marks Andrew R  
CS Department of Physiology and Cellular Biophysics, Center for Molecular Cardiology, Columbia University College of Physicians and Surgeons, 630W 168th Street, P&S 9-401, New York, NY 10032, USA.. sel2004@columbia.edu  
SO Biochemical and biophysical research communications, (2004 Oct 1) 322 (4) 1267-79. Ref: 185  
Journal code: 0372516. ISSN: 0006-291X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200411  
ED Entered STN: 20040901  
Last Updated on STN: 20041219  
Entered Medline: 20041123

L5 ANSWER 8 OF 65 MEDLINE on STN  
AN 2004349666 MEDLINE  
DN PubMed ID: 15201156  
TI Cardiac **ryanodine receptor** function and regulation in heart disease.  
AU Lehnart Stephan E; Wehrens Xander H T; Kushnir Alexander; Marks Andrew R  
CS Center for Molecular Cardiology, Department of Physiology and Cellular Biophysics, Columbia University, College of Physicians and Surgeons, New York, NY 10032, USA.  
SO Annals of the New York Academy of Sciences, (2004 May) 1015 144-59. Ref: 91  
Journal code: 7506858. ISSN: 0077-8923.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)

LA General Review; (REVIEW)  
FS English  
EM Priority Journals  
DN 200407  
ED Entered STN: 20040716  
Last Updated on STN: 20040729  
Entered Medline: 20040728

L5 ANSWER 9 OF 65 MEDLINE on STN  
AN 2004323932 MEDLINE  
DN PubMed ID: 15197150  
TI Sudden death in familial polymorphic ventricular tachycardia associated with calcium release channel (**ryanodine receptor**) leak.  
AU Lehnart Stephan E; Wehrens Xander H T; Laitinen Paivi J; Reiken Steven R; Deng Shi-Xiang; Cheng Zhenzhuang; Landry Donald W; Kontula Kimmo; Swan Heikki; Marks Andrew R  
CS Center for Molecular Cardiology, Department of Physiology and Cellular Biophysics, Columbia University College of Physicians and Surgeons, 630 W. 168th St, P&S 9-401, Box 65, New York, NY 10032, USA.  
SO Circulation, (2004 Jun 29) 109 (25) 3208-14. Electronic Publication: 2004-06-14.  
Journal code: 0147763. ISSN: 1524-4539.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200501  
ED Entered STN: 20040701  
Last Updated on STN: 20050104  
Entered Medline: 20050103

L5 ANSWER 10 OF 65 MEDLINE on STN  
AN 2004314322 MEDLINE  
DN PubMed ID: 15176427  
TI Molecular determinants of altered contractility in heart failure.  
AU Wehrens Xander H T; Marks Andrew R  
CS Center for Molecular Cardiology, Department of Physiology and Cellular Biophysics, Columbia University College of Physicians and Surgeons, 630W 168th Street, P&S 9-401, Box 65, New York, NY 10032, USA.  
SO Annals of medicine, (2004) 36 Suppl 1 70-80. Ref: 112  
Journal code: 8906388. ISSN: 0785-3890.  
CY Sweden  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200410  
ED Entered STN: 20040626  
Last Updated on STN: 20041009  
Entered Medline: 20041008

L5 ANSWER 11 OF 65 MEDLINE on STN  
AN 2004270422 MEDLINE  
DN PubMed ID: 15169625  
TI Dispersion of ventricular mRNA of RyR2 and SERCA2 associated with arrhythmogenesis in rats.  
AU Wang Hong-Lan; Dai De-Zai; Gao Eeng; Zhang Yan-Pin; Lu Feng  
CS Research Division of Pharmacology, China Pharmaceutical University, Nanjing 210009, China.  
SO Acta pharmacologica Sinica, (2004 Jun) 25 (6) 738-43.  
Journal code: 100956087. ISSN: 1671-4083.  
CY China  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200408

ED Entered STN: 20040602  
Last Updated on STN: 20040811  
Entered Medline: 20040810

L5 ANSWER 12 OF 65 MEDLINE on STN  
AN 2004244807 MEDLINE  
DN PubMed ID: 15142747  
TI Mechanistic systems models of cell signaling networks: a case study of myocyte adrenergic regulation.  
AU Saucerman Jeffrey J; McCulloch Andrew D  
CS Department of Bioengineering, University of California, San Diego, 9500 Gilman Dr., La Jolla, CA 92093-0412, USA.  
NC CA00261 (NCI)  
P41 RR08605 (NCRR)  
SO Progress in biophysics and molecular biology, (2004 Jun-Jul) 85 (2-3) 261-78.  
Journal code: 0401233. ISSN: 0079-6107.  
CY England: United Kingdom  
DT (EVALUATION STUDIES)  
Journal; Article; (JOURNAL ARTICLE)  
(VALIDATION STUDIES)  
LA English  
FS Priority Journals  
EM 200407  
ED Entered STN: 20040515  
Last Updated on STN: 20040717  
Entered Medline: 20040716

L5 ANSWER 13 OF 65 MEDLINE on STN  
AN 2004189086 MEDLINE  
DN PubMed ID: 14724205  
TI Modulation of excitation-contraction coupling by isoproterenol in cardiomyocytes with controlled SR Ca<sup>2+</sup> load and Ca<sup>2+</sup> current trigger.  
AU Ginsburg Kenneth S; Bers Donald M  
CS Department of Physiology, Loyola University Chicago, Stritch School of Medicine, Maywood, IL 60153, USA.  
NC HL-30077 (NHLBI)  
HL-64098 (NHLBI)  
SO Journal of physiology, (2004 Apr 15) 556 (Pt 2) 463-80. Electronic Publication: 2004-01-14.  
Journal code: 0266262. ISSN: 0022-3751.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200411  
ED Entered STN: 20040416  
Last Updated on STN: 20041110  
Entered Medline: 20041109

L5 ANSWER 14 OF 65 MEDLINE on STN  
AN 2004179165 MEDLINE  
DN PubMed ID: 15073377  
TI Protection from **cardiac arrhythmia** through **ryanodine receptor**-stabilizing protein calstabin2.  
AU Wehrens Xander H T; Lehnart Stephan E; Reiken Steven R; Deng Shi-Xian; Vest John A; Cervantes Daniel; Coromilas James; Landry Donald W; Marks Andrew R  
CS Department of Physiology and Cellular Biophysics, Columbia University College of Physicians and Surgeons, New York, NY 10032, USA.  
SO Science, (2004 Apr 9) 304 (5668) 292-6.  
Journal code: 0404511. ISSN: 1095-9203.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200405  
ED Entered STN: 20040410

Last Updated on STN: 20040505

Entered Medline: 20040503

L5 ANSWER 15 OF 65 MEDLINE on STN  
AN 2004165944 MEDLINE  
DN PubMed ID: 15016728  
TI Ca<sub>2+</sub>/calmodulin-dependent protein kinase II **phosphorylation**  
regulates the cardiac **ryanodine receptor**.  
AU Wehrens Xander H T; Lehnart Stephan E; Reiken Steven R; Marks Andrew R  
CS Department of Physiology and Cellular Biophysics, Columbia University  
College of Physicians and Surgeons, 630 W 168th St, P&S 9-401, Box 65, New  
York, NY 10032, USA.  
SO Circulation research, (2004 Apr 2) 94 (6) e61-70. Electronic Publication:  
2004-03-11.  
Journal code: 0047103. ISSN: 1524-4571.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200407  
ED Entered STN: 20040403  
Last Updated on STN: 20040717  
Entered Medline: 20040716

L5 ANSWER 16 OF 65 MEDLINE on STN  
AN 2004110961 MEDLINE  
DN PubMed ID: 14715536  
TI Protein kinase A **phosphorylation**  
at serine-2808 of the cardiac Ca<sub>2+</sub>-release channel (**ryanodine**  
**receptor**) does not dissociate 12.6-kDa FK506-binding protein (  
**FKBP12.6**).  
AU Xiao Bailong; Sutherland Cindy; Walsh Michael P; Chen S R Wayne  
CS Cardiovascular Research Group, Department of Biochemistry and Molecular  
Biology, University of Calgary, Alberta, Canada.  
SO Circulation research, (2004 Mar 5) 94 (4) 487-95. Electronic Publication:  
2004-01-08.  
Journal code: 0047103. ISSN: 1524-4571.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200405  
ED Entered STN: 20040306  
Last Updated on STN: 20040522  
Entered Medline: 20040521

L5 ANSWER 17 OF 65 MEDLINE on STN  
AN 2004090864 MEDLINE  
DN PubMed ID: 14757694  
TI Valsartan restores sarcoplasmic reticulum function with no appreciable  
effect on resting cardiac function in pacing-induced heart failure.  
AU Okuda Shinichi; Yano Masafumi; Doi Masahiro; Oda Tetsuro; Tokuhisa  
Takahiro; Kohno Masateru; Kobayashi Shigeki; Yamamoto Takeshi; Ohkusa  
Tomoko; Matsuzaki Masunori  
CS Department of Medical Bioregulation, Division of Cardiovascular Medicine,  
Yamaguchi University School of Medicine, Ube, Yamaguchi, Japan.  
SO Circulation, (2004 Feb 24) 109 (7) 911-9. Electronic Publication:  
2004-02-02.  
Journal code: 0147763. ISSN: 1524-4539.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200406  
ED Entered STN: 20040225  
Last Updated on STN: 20040602  
Entered Medline: 20040601

L5 ANSWER 18 OF 65 MEDLINE on STN  
AN 2003580523 MEDLINE  
DN PubMed ID: 14659699  
TI Altered function and regulation of cardiac **ryanodine receptors** in cardiac disease.  
AU Wehrens Xander H T; Marks Andrew R  
CS Center for Molecular Cardiology, Departments of Physiology and Cellular Biophysics and Medicine, Columbia University College of Physicians and Surgeons, 630W 168th Street, P&S 9-401, Box 65, New York, NY 10032, USA.  
SO Trends in biochemical sciences, (2003 Dec) 28 (12) 671-8. Ref: 75  
Journal code: 7610674. ISSN: 0968-0004.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200401  
ED Entered STN: 20031216  
Last Updated on STN: 20040129  
Entered Medline: 20040128

L5 ANSWER 19 OF 65 MEDLINE on STN  
AN 2003454300 MEDLINE  
DN PubMed ID: 14514795  
TI Stoichiometric phosphorylation of cardiac **ryanodine receptor** on serine 2809 by calmodulin-dependent kinase II and **protein kinase A**.  
AU Rodriguez Patricia; Bhogal Moninder S; Colyer John  
CS School of Biochemistry and Molecular Biology, University of Leeds, Leeds LS2 9JT, United Kingdom.  
SO Journal of biological chemistry, (2003 Oct 3) 278 (40) 38593-600.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200311  
ED Entered STN: 20030930  
Last Updated on STN: 20031107  
Entered Medline: 20031106

L5 ANSWER 20 OF 65 MEDLINE on STN  
AN 2003339023 MEDLINE  
DN PubMed ID: 12871170  
TI Immunophilins and coupled gating of **ryanodine receptors**  
AU Lehnart Stephan E; Huang Fannie; Marx Steven O; Marks Andrew R  
CS Center for Molecular Cardiology, Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032, USA.  
SO Current topics in medicinal chemistry, (2003) 3 (12) 1383-91. Ref: 73  
Journal code: 101119673. ISSN: 1568-0266.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200310  
ED Entered STN: 20030722  
Last Updated on STN: 20031009  
Entered Medline: 20031008

L5 ANSWER 21 OF 65 MEDLINE on STN  
AN 2003316363 MEDLINE  
DN PubMed ID: 12709444  
TI Targeting of **protein kinase A** by muscle A kinase-anchoring protein (mAKAP) regulates phosphorylation and

AU function of the skeletal muscle **ryanodine receptor**.  
Ruehr Mary L; Russell Mary A; Ferguson Donald G; Bhat Manju; Ma Jianjie;  
Damron Derek S; Scott John D; Bond Meredith  
CS Department of Molecular Cardiology, Lerner Research Institute, Cleveland,  
Ohio 44195, USA.  
NC AG15556 (NIA)  
AG16613 (NIA)  
DK54441 (NIDDK)  
HL065701 (NHLBI)  
HL10273 (NHLBI)  
HL56256 (NHLBI)  
HL69000 (NHLBI)  
SO Journal of biological chemistry, (2003 Jul 4) 278 (27) 24831-6.  
Electronic Publication: 2003-04-21.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200308  
ED Entered STN: 20030709  
Last Updated on STN: 20030819  
Entered Medline: 20030818

L5 ANSWER 22 OF 65 MEDLINE on STN  
AN 2003313515 MEDLINE  
DN PubMed ID: 12686515  
TI Intracellular Cs+ activates the **PKA** pathway, revealing a fast,  
reversible, Ca2+-dependent inactivation of L-type Ca2+ current.  
AU Brette Fabien; Lacampagne Alain; Salle Laurent; Findlay Ian; Le Guennec  
Jean-Yves  
CS Centre National de la Recherche Scientifique Unite Mixte de Recherche  
6542, Universite de Tours, France.. bmsfpb@bms.leeds.ac.uk  
SO American journal of physiology. Cell physiology, (2003 Aug) 285 (2)  
C310-8. Electronic Publication: 2003-04-09.  
Journal code: 100901225. ISSN: 0363-6143.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200309  
ED Entered STN: 20030708  
Last Updated on STN: 20030906  
Entered Medline: 20030905

L5 ANSWER 23 OF 65 MEDLINE on STN  
AN 2003309361 MEDLINE  
DN PubMed ID: 12837242  
TI **FKBP12.6** deficiency and defective calcium release  
channel (**ryanodine receptor**) function linked to  
exercise-induced sudden cardiac death.  
AU Wehrens Xander H T; Lehnart Stephan E; Huang Fannie; Vest John A; Reiken  
Steven R; Mohler Peter J; Sun Jie; Guatimosim Silvia; Song Long Sheng;  
Rosemblit Nora; D'Armiento Jeanine M; Napolitano Carlo; Memmi Mirella;  
Priori Silvia G; Lederer W J; Marks Andrew R  
CS Department of Physiology and Cellular Biophysics, Center for Molecular  
Cardiology, Columbia University College of Physicians and Surgeons, New  
York, NY 10032, USA.  
SO Cell, (2003 Jun 27) 113 (7) 829-40.  
Journal code: 0413066. ISSN: 0092-8674.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200308  
ED Entered STN: 20030703  
Last Updated on STN: 20030814  
Entered Medline: 20030813

L5 ANSWER 24 OF 65 MEDLINE on STN  
AN 2003233708 MEDLINE  
DN PubMed ID: 12743001  
TI Beta-blockers restore calcium release channel function and improve cardiac muscle performance in human heart failure.  
CM Comment in: Circulation. 2003 May 20;107(19):2395-7. PubMed ID: 12756189  
AU Reiken Steven; Wehrens Xander H T; Vest John A; Barbone Alessandro; Klotz Stefan; Mancini Donna; Burkhoff Daniel; Marks Andrew R  
CS Center for Molecular Cardiology, Columbia University College of Physicians and Surgeons, New York, NY 10032, USA.  
SO Circulation, (2003 May 20) 107 (19) 2459-66. Electronic Publication: 2003-05-12.  
Journal code: 0147763. ISSN: 1524-4539.  
CY United States  
DT (CLINICAL TRIAL)  
LA Journal; Article; (JOURNAL ARTICLE)  
FS English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200305  
ED Entered STN: 20030521  
Last Updated on STN: 20030524  
Entered Medline: 20030523

L5 ANSWER 25 OF 65 MEDLINE on STN  
AN 2003210158 MEDLINE  
DN PubMed ID: 12676814  
TI The deltaC isoform of CaMKII is activated in cardiac hypertrophy and induces dilated cardiomyopathy and heart failure.  
AU Zhang Tong; Maier Lars S; Dalton Nancy D; Miyamoto Shigeki; Ross John Jr; Bers Donald M; Brown Joan Heller  
CS Department of Pharmacology, University of California, San Diego, 9500 Gilman Dr, La Jolla, Calif 92093-0636, USA.  
NC HL-28143 (NHLBI)  
HL-30077 (NHLBI)  
HL-46345 (NHLBI)  
HL-64724 (NHLBI)  
SO Circulation research, (2003 May 2) 92 (8) 912-9. Electronic Publication: 2003-04-03.  
Journal code: 0047103. ISSN: 1524-4571.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Space Life Sciences  
EM 200305  
ED Entered STN: 20030507  
Last Updated on STN: 20030531  
Entered Medline: 20030530

L5 ANSWER 26 OF 65 MEDLINE on STN  
AN 2003128094 MEDLINE  
DN PubMed ID: 12629052  
TI PKA phosphorylation activates the calcium release channel (**ryanodine receptor**) in skeletal muscle: defective regulation in heart failure.  
AU Reiken Steven; Lacampagne Alain; Zhou Hua; Kherani Aftab; Lehnart Stephan E; Ward Chris; Huang Fannie; Gaburjakova Marta; Gaburjakova Jana; Rosemblit Nora; Warren Michelle S; He Kun-Lun; Yi Geng-Hua; Wang Jie; Burkhoff Daniel; Vassort Guy; Marks Andrew R  
CS Center for Molecular Cardiology, Box 65, Columbia University College of Physicians and Surgeons, Room 9-401, 630 West 168th Street, New York, NY 10032, USA.  
SO Journal of cell biology, (2003 Mar 17) 160 (6) 919-28. Electronic Publication: 2003-03-10.  
Journal code: 0375356. ISSN: 0021-9525.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English

FS Priority Journals  
EM 200305  
ED Entered STN: 20030319  
Last Updated on STN: 20030517  
Entered Medline: 20030516

L5 ANSWER 27 OF 65 MEDLINE on STN  
AN 2003043420 MEDLINE  
DN PubMed ID: 12410638  
TI Glucagon-like peptide-1 mobilizes intracellular Ca<sup>2+</sup> and stimulates mitochondrial ATP synthesis in pancreatic MIN6 beta-cells.  
AU Tsuboi Takashi; da Silva Xavier Gabriela; Holz George G; Jouaville Laurence S; Thomas Andrew P; Rutter Guy A  
CS Henry Wellcome Laboratories for Integrated Cell Signalling, Department of Biochemistry, School of Medical Sciences, University of Bristol, University Walk, Bristol BS8 1TD, U.K.  
SO Biochemical journal, (2003 Jan 15) 369 (Pt 2) 287-99.  
Journal code: 2984726R. ISSN: 0264-6021.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200302  
ED Entered STN: 20030130  
Last Updated on STN: 20030222  
Entered Medline: 20030221

L5 ANSWER 28 OF 65 MEDLINE on STN  
AN 2003042489 MEDLINE  
DN PubMed ID: 12551874  
TI **FKBP12.6**-mediated stabilization of calcium-release channel (**ryanodine receptor**) as a novel therapeutic strategy against heart failure.  
CM Comment in: Circulation. 2003 Jan 28;107(3):378-80. PubMed ID: 12551857  
AU Yano Masafumi; Kobayashi Shigeki; Kohno Masateru; Doi Masahiro; Tokuhisa Takahiro; Okuda Shinichi; Suetsugu Masae; Hisaoka Takayuki; Obayashi Masakazu; Ohkusa Tomoko; Kohno Michihiro; Matsuzaki Masunori  
CS Department of Medical Bioregulation, Division of Cardiovascular Medicine, Yamaguchi University School of Medicine, Ube, Yamaguchi, Japan..  
yanoma@po.cc.yamaguchi-u.ac.jp  
SO Circulation, (2003 Jan 28) 107 (3) 477-84.  
Journal code: 0147763. ISSN: 1524-4539.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200302  
ED Entered STN: 20030129  
Last Updated on STN: 20030206  
Entered Medline: 20030205

L5 ANSWER 29 OF 65 MEDLINE on STN  
AN 2003008687 MEDLINE  
DN PubMed ID: 12401811  
TI **Protein kinase A phosphorylation** of the cardiac calcium release channel (**ryanodine receptor**) in normal and failing hearts. Role of phosphatases and response to isoproterenol.  
AU Reiken Steven; Gaburjakova Marta; Guatimosim Silvia; Gomez Ana M; D'Armiento Jeanine; Burkhoff Daniel; Wang Jie; Vassort Guy; Lederer W Jonathan; Marks Andrew R  
CS Center for Molecular Cardiology, Columbia University College of Physicians and Surgeons, New York, New York 10032, USA.  
SO Journal of biological chemistry, (2003 Jan 3) 278 (1) 444-53. Electronic Publication: 2002-10-24.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)

LA English  
FS Priority Journals  
EM 200302  
ED Entered STN: 20030108  
Last Updated on STN: 20030211  
Entered Medline: 20030210

L5 ANSWER 30 OF 65 MEDLINE on STN  
AN 2002716901 MEDLINE  
DN PubMed ID: 12479234  
TI Regulation of the **ryanodine receptor** in heart failure.  
AU Marx Steven O; Marks Andrew R  
CS Center for Molecular Cardiology, Division of Cardiology, Department of Medicine, Columbia University College of Physicians and Surgeons, Rm 9-401, 630 West 168th Street, New York, NY 10032, USA.  
SO Basic research in cardiology, (2002) 97 Suppl 1 I49-51. Ref: 26  
Journal code: 0360342. ISSN: 0300-8428.  
CY Germany: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200212  
ED Entered STN: 20021218  
Last Updated on STN: 20021228  
Entered Medline: 20021227

L5 ANSWER 31 OF 65 MEDLINE on STN  
AN 2002695781 MEDLINE  
DN PubMed ID: 12456487  
TI Abnormal Ca<sup>2+</sup> release, but normal **ryanodine receptors**, in canine and human heart failure.  
CM Comment in: Circ Res. 2002 Nov 29;91(11):979-81. PubMed ID: 12456481  
AU Jiang Ming Tao; Lokuta Andrew J; Farrell Emily F; Wolff Matthew R; Haworth Robert A; Valdivia Hector H  
CS Department of Physiology, University of Wisconsin Medical School, Madison, Wis 53706, USA.  
NC HL-55438 (NHLBI)  
HL-61534 (NHLBI)  
PO1-HL47053 (NHLBI)  
SO Circulation research, (2002 Nov 29) 91 (11) 1015-22.  
Journal code: 0047103. ISSN: 1524-4571.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200212  
ED Entered STN: 20021217  
Last Updated on STN: 20021217  
Entered Medline: 20021209

L5 ANSWER 32 OF 65 MEDLINE on STN  
AN 2002678235 MEDLINE  
DN PubMed ID: 12438018  
TI Regulation of mammalian **ryanodine receptors**.  
AU Meissner Gerhard  
CS Department of Biochemistry and Biophysics, University of North Carolina, Chapel Hill, NC 27599-7260, USA.. meissner@med.unc.edu  
NC AR 18687 (NIAMS)  
HL 27430 (NHLBI)  
SO Frontiers in bioscience : a journal and virtual library, (2002 Nov 1) 7 d2072-80. Electronic Publication: 2002-11-01. Ref: 87  
Journal code: 9709506. ISSN: 1093-4715.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)

LA English  
FS Priority Journals  
EM 200211  
ED Entered STN: 20021120  
Last Updated on STN: 20021214  
Entered Medline: 20021127

L5 ANSWER 33 OF 65 MEDLINE on STN  
AN 2002448215 MEDLINE  
DN PubMed ID: 12205148  
TI **Ryanodine receptors** contribute to cGMP-induced late-phase LTP and CREB phosphorylation in the hippocampus.  
AU Lu Yun-Fei; Hawkins Robert D  
CS Center for Neurobiology and Behavior, College of Physicians and Surgeons, Columbia University, New York, New York 10032, USA.  
NC MH-50733 (NIMH)  
SO Journal of neurophysiology, (2002 Sep) 88 (3) 1270-8.  
Journal code: 0375404. ISSN: 0022-3077.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200210  
ED Entered STN: 20020904  
Last Updated on STN: 20021024  
Entered Medline: 20021023

L5 ANSWER 34 OF 65 MEDLINE on STN  
AN 2002327814 MEDLINE  
DN PubMed ID: 12069756  
TI Regulation of **ryanodine receptors** via macromolecular complexes: a novel role for leucine/isoleucine zippers.  
AU Marks Andrew R; Marx Steven O; Reiken Steven  
CS Department of Medicine, Columbia University College of Physicians and Surgeons, Center for Molecular Cardiology, New York 10032, USA.. arm42@columbia.edu  
SO Trends in cardiovascular medicine, (2002 May) 12 (4) 166-70. Ref: 39  
Journal code: 9108337. ISSN: 1050-1738.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200208  
ED Entered STN: 20020619  
Last Updated on STN: 20020816  
Entered Medline: 20020815

L5 ANSWER 35 OF 65 MEDLINE on STN  
AN 2002239135 MEDLINE  
DN PubMed ID: 11976933  
TI Gating kinetics and ligand sensitivity modified by phosphorylation of cardiac **ryanodine receptors**.  
AU Uehara Akira; Yasukochi Midori; Mejia-Alvarez Rafael; Fill Michael; Imanaga Issei  
CS Department of Physiology, School of Medicine, Fukuoka University, Jonan-ku, 814-0180, Japan.. Ueharaak@fukuoka-u.ac.jp  
NC R01-HL57832 (NHLBI)  
SO Pflugers Archiv : European journal of physiology, (2002 May) 444 (1-2) 202-12. Electronic Publication: 2002-02-14.  
Journal code: 0154720. ISSN: 0031-6768.  
CY Germany: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200211  
ED Entered STN: 20020429

Last Updated on STN: 20030105

Entered Medline: 20021104

L5 ANSWER 36 OF 65 MEDLINE on STN  
AN 2002169037 MEDLINE  
DN PubMed ID: 11901051  
TI Propranolol prevents the development of heart failure by restoring  
**FKBP12.6-mediated stabilization of ryanodine receptor.**  
AU Doi Masahiro; Yano Masafumi; Kobayashi Shigeki; Kohno Masateru; Tokuhisa  
Takahiro; Okuda Shinichi; Suetsugu Masaë; Hisamatsu Yuhji; Ohkusa Tomoko;  
Kohno Michihiro; Matsuzaki Masunori  
CS Department of Medical Bioregulation, Division of Cardiovascular Medicine,  
Yamaguchi University School of Medicine, Yamaguchi, Japan.  
SO Circulation, (2002 Mar 19) 105 (11) 1374-9.  
Journal code: 0147763. ISSN: 1524-4539.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200203  
ED Entered STN: 20020320  
Last Updated on STN: 20020403  
Entered Medline: 20020328

L5 ANSWER 37 OF 65 MEDLINE on STN  
AN 2002165484 MEDLINE  
DN PubMed ID: 11897558  
TI **Ryanodine receptors, FKBP12, and heart failure.**  
AU Marks Andrew R  
CS Center for Molecular Cardiology, Department of Medicine, Columbia  
University College of Physicians and Surgeons, New York, NY 10032, USA..  
arm42@columbia.edu  
SO Frontiers in bioscience : a journal and virtual library, (2002 Apr 1) 7  
d970-7. Electronic Publication: 2002-04-01. Ref: 71  
Journal code: 9709506. ISSN: 1093-4715.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200204  
ED Entered STN: 20020319  
Last Updated on STN: 20020416  
Entered Medline: 20020415

L5 ANSWER 38 OF 65 MEDLINE on STN  
AN 2002128281 MEDLINE  
DN PubMed ID: 11861420  
TI **Protein kinase A phosphorylation**  
of the **ryanodine receptor** does not affect calcium  
sparks in mouse ventricular myocytes.  
AU Li Yanxia; Kranias Evangelia G; Mignery Gregory A; Bers Donald M  
CS Department of Physiology and Cardiovascular Institute, Loyola University  
Chicago, Stritch School of Medicine, Maywood, Ill 60153, USA.  
NC HL-30077 (NHLBI)  
HL-64098 (NHLBI)  
HL61503 (NHLBI)  
SO Circulation research, (2002 Feb 22) 90 (3) 309-16.  
Journal code: 0047103. ISSN: 1524-4571.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200202  
ED Entered STN: 20020227  
Last Updated on STN: 20020228

Entered Medline: 20020227

L5 ANSWER 39 OF 65 MEDLINE on STN  
AN 2002079340 MEDLINE  
DN PubMed ID: 11807805  
TI Involvement of the cardiac **ryanodine receptor**/calcium release channel in catecholaminergic polymorphic ventricular tachycardia.  
AU Marks Andrew R; Priori Silvia; Memmi Mirella; Kontula Kimmo; Laitinen Paivi J  
CS Center for Molecular Cardiology, Department of Pharmacology, Box 65, Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032, USA.. arm42@columbia.edu  
SO Journal of cellular physiology, (2002 Jan) 190 (1) 1-6. Ref: 65  
Journal code: 0050222. ISSN: 0021-9541.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200201  
ED Entered STN: 20020128  
Last Updated on STN: 20020201  
Entered Medline: 20020131

L5 ANSWER 40 OF 65 MEDLINE on STN  
AN 2002078459 MEDLINE  
DN PubMed ID: 11804976  
TI Progression of heart failure: is **protein kinase** a hyperphosphorylation of the **ryanodine receptor** a contributing factor?.  
AU Marks Andrew R; Reiken Steven; Marx Steven O  
CS Center for Molecular Cardiology, Department of Pharmacology, Columbia University College of Physicians and Surgeons, New York, NY, USA.. arm42@columbia.edu  
SO Circulation, (2002 Jan 22) 105 (3) 272-5.  
Journal code: 0147763. ISSN: 1524-4539.  
CY United States  
DT Editorial  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200202  
ED Entered STN: 20020128  
Last Updated on STN: 20020206  
Entered Medline: 20020205

L5 ANSWER 41 OF 65 MEDLINE on STN  
AN 2002054081 MEDLINE  
DN PubMed ID: 11694504  
TI **Phosphorylation** of inositol 1,4,5-trisphosphate receptors in parotid acinar cells. A mechanism for the synergistic effects of cAMP on Ca<sup>2+</sup> signaling.  
AU Bruce Jason I E; Shuttleworth Trevor J; Giovannucci David R; Yule David I  
CS Department of Pharmacology & Physiology, School of Medicine and Dentistry, University of Rochester Medical Center, Rochester, New York 14642, USA.. jason\_bruce@urmc.rochester.edu  
NC DEO 13539 (NIDCR)  
DK54568 (NIDDK)  
GM 40457 (NIGMS)  
SO Journal of biological chemistry, (2002 Jan 11) 277 (2) 1340-8. Electronic Publication: 2001-11-01.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200202  
ED Entered STN: 20020125

Last Updated on STN: 20030105

Entered Medline: 20020207

L5 ANSWER 42 OF 65 MEDLINE on STN  
AN 2001687905 MEDLINE  
DN PubMed ID: 11733405  
TI beta-adrenergic receptor blockers restore cardiac calcium release channel  
(ryanodine receptor) structure and function in heart  
failure.  
AU Reiken S; Gaburjakova M; Gaburjakova J; He Kl K L; Prieto A; Becker E; Yi  
Gh G H; Wang J; Burkhoff D; Marks A R  
CS Center for Molecular Cardiology, Department of Pharmacology, Circulatory  
Physiology Division, Department of Medicine, Columbia University College  
of Physicians and Surgeons, New York, NY, USA.  
SO Circulation, (2001 Dec 4) 104 (23) 2843-8.  
Journal code: 0147763. ISSN: 1524-4539.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200201  
ED Entered STN: 20011206  
Last Updated on STN: 20020125  
Entered Medline: 20020111

L5 ANSWER 43 OF 65 MEDLINE on STN  
AN 2001671271 MEDLINE  
DN PubMed ID: 11717156  
TI Dilated cardiomyopathy and sudden death resulting from constitutive  
activation of protein kinase a.  
CM Comment in: Circ Res. 2001 Nov 23;89(11):938-40. PubMed ID: 11717148  
AU Antos C L; Frey N; Marx S O; Reiken S; Gaburjakova M; Richardson J A;  
Marks A R; Olson E N  
CS Department of Molecular Biology, University of Texas, Southwestern Medical  
Center at Dallas, Texas, USA.  
SO Circulation research, (2001 Nov 23) 89 (11) 997-1004.  
Journal code: 0047103. ISSN: 1524-4571.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200112  
ED Entered STN: 20011122  
Last Updated on STN: 20020123  
Entered Medline: 20011207

L5 ANSWER 44 OF 65 MEDLINE on STN  
AN 2001543345 MEDLINE  
DN PubMed ID: 11590243  
TI mAKAP and the ryanodine receptor are part of a  
multi-component signaling complex on the cardiomyocyte nuclear envelope.  
AU Kapiloff M S; Jackson N; Airhart N  
CS Department of Pediatrics, Heart Research Center, Oregon Health Sciences  
University, NRC5, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201,  
USA.. kapiloff@ohsu.edu  
NC K08 HL04229 (NHLBI)  
SO Journal of cell science, (2001 Sep) 114 (Pt 17) 3167-76.  
Journal code: 0052457. ISSN: 0021-9533.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200112  
ED Entered STN: 20011010  
Last Updated on STN: 20020124  
Entered Medline: 20011231

L5 ANSWER 45 OF 65 MEDLINE on STN

AN 2001478937 MEDLINE  
DN PubMed ID: 11522681  
TI Depressed levels of Ca<sup>2+</sup>-cycling proteins may underlie sarcoplasmic reticulum dysfunction in the diabetic heart.  
AU Netticadan T; Temsah R M; Kent A; Elimban V; Dhalla N S  
CS Institute of Cardiovascular Sciences, St. Boniface General Hospital Research Centre, Winnipeg, Canada.  
SO Diabetes, (2001 Sep) 50 (9) 2133-8.  
Journal code: 0372763. ISSN: 0012-1797.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 200109  
ED Entered STN: 20010828  
Last Updated on STN: 20010924  
Entered Medline: 20010920

L5 ANSWER 46 OF 65 MEDLINE on STN  
AN 2001187255 MEDLINE  
DN PubMed ID: 11273716  
TI **Ryanodine receptors**/calcium release channels in heart failure and sudden cardiac death.  
AU Marks A R  
CS Center for Molecular Cardiology, Department of Pharmacology, Columbia University College of Physicians and Surgeons, New York, NY 10032, USA.. arm42@columbia.edu  
NC RO1 AI39794 (NIAID)  
RO1 HL56180 (NHLBI)  
RO1 HL61503 (NHLBI)  
RO3 TW00949 (FIC)  
SO Journal of molecular and cellular cardiology, (2001 Apr) 33 (4) 615-24.  
Ref: 90  
Journal code: 0262322. ISSN: 0022-2828.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200106  
ED Entered STN: 20010618  
Last Updated on STN: 20010618  
Entered Medline: 20010614

L5 ANSWER 47 OF 65 MEDLINE on STN  
AN 2001092109 MEDLINE  
DN PubMed ID: 11062058  
TI Calcineurin regulates **ryanodine receptor**/Ca(2+)-release channels in rat heart.  
AU Bandyopadhyay A; Shin D W; Ahn J O; Kim D H  
CS Department of Life Science, Kwangju Institute of Science and Technology (K-JIST), 1 Oryong-dong, Puk-gu, Kwangju 500-712, Korea.  
SO Biochemical journal, (2000 Nov 15) 352 Pt 1 61-70.  
Journal code: 2984726R. ISSN: 0264-6021.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200101  
ED Entered STN: 20010322  
Last Updated on STN: 20010322  
Entered Medline: 20010125

L5 ANSWER 48 OF 65 MEDLINE on STN  
AN 2000288976 MEDLINE  
DN PubMed ID: 10830164  
TI **PKA phosphorylation** dissociates **FKBP12**.

6 from the calcium release channel (**ryanodine receptor**): defective regulation in failing hearts.

AU Marx S O; Reiken S; Hisamatsu Y; Jayaraman T; Burkhoff D; Rosemblit N;

Marks A R

CS Center for Molecular Cardiology, Department of Medicine, College of Physicians and Surgeons of Columbia University, New York, New York 10032, USA.

NC RO1 AI39794 (NIAID)

RO1 HL56180 (NHLBI)

RO1 HL61503 (NHLBI)

+

SO Cell, (2000 May 12) 101 (4) 365-76.

Journal code: 0413066. ISSN: 0092-8674.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200006

ED Entered STN: 20000629

Last Updated on STN: 20000629

Entered Medline: 20000616

L5 ANSWER 49 OF 65 MEDLINE on STN

AN 1999119241 MEDLINE

DN PubMed ID: 9922179

TI Binding of the catalytic subunit of protein phosphatase-1 to the ryanodine-sensitive calcium release channel protein.

AU Zhao S; Brandt N R; Caswell A H; Lee E Y

CS Department of Biochemistry and Molecular Biology, University of Miami School of Medicine, Florida 33101, USA.

NC AR43355 (NIAMS)

DK18512 (NIDDK)

SO Biochemistry, (1998 Dec 22) 37 (51) 18102-9.

Journal code: 0370623. ISSN: 0006-2960.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199902

ED Entered STN: 19990223

Last Updated on STN: 19990223

Entered Medline: 19990211

L5 ANSWER 50 OF 65 MEDLINE on STN

AN 1999085079 MEDLINE

DN PubMed ID: 9864374

TI Functional characteristics of ES cell-derived cardiac precursor cells identified by tissue-specific expression of the green fluorescent protein.

AU Kolossov E; Fleischmann B K; Liu Q; Bloch W; Viatchenko-Karpinski S;

Manzke O; Ji G J; Bohlen H; Addicks K; Hescheler J

CS Institute of Neurophysiology, University of Cologne, D-50931 Cologne, Germany.

SO Journal of cell biology, (1998 Dec 28) 143 (7) 2045-56.

Journal code: 0375356. ISSN: 0021-9525.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199902

ED Entered STN: 19990216

Last Updated on STN: 20000303

Entered Medline: 19990204

L5 ANSWER 51 OF 65 MEDLINE on STN

AN 1998345364 MEDLINE

DN PubMed ID: 9679148

TI A-kinase anchoring protein 100 (AKAP100) is localized in multiple subcellular compartments in the adult rat heart.

AU Yang J; Drazba J A; Ferguson D G; Bond M  
CS Department of Molecular Cardiology, The Lerner Research Institute,  
Cleveland Clinic Foundation, Cleveland, OH 44195, USA.  
NC HL07653 (NHLBI)  
RO1 HL56256 (NHLBI)  
SO Journal of cell biology, (1998 Jul 27) 142 (2) 511-22.  
Journal code: 0375356. ISSN: 0021-9525.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199808  
ED Entered STN: 19980828  
Last Updated on STN: 19980828  
Entered Medline: 19980819

L5 ANSWER 52 OF 65 MEDLINE on STN  
AN 1998263323 MEDLINE  
DN PubMed ID: 9600932  
TI In situ activation of the type 2 **ryanodine receptor** in  
pancreatic beta cells requires cAMP-dependent phosphorylation.  
AU Islam M S; Leibiger I; Leibiger B; Rossi D; Sorrentino V; Ekstrom T J;  
Westerblad H; Andrade F H; Berggren P O  
CS The Rolf Luft Center for Diabetes Research, Department of Molecular  
Medicine, Karolinska Institute, S-171 76 Stockholm, Sweden.  
SO Proceedings of the National Academy of Sciences of the United States of  
America, (1998 May 26) 95 (11) 6145-50.  
Journal code: 7505876. ISSN: 0027-8424.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199806  
ED Entered STN: 19980708  
Last Updated on STN: 19980708  
Entered Medline: 19980622

L5 ANSWER 53 OF 65 MEDLINE on STN  
AN 97460132 MEDLINE  
DN PubMed ID: 9312152  
TI Modulation of cardiac **ryanodine receptors** by sorcin.  
AU Lokuta A J; Meyers M B; Sander P R; Fishman G I; Valdivia H H  
CS Department of Physiology, University of Wisconsin Medical School, Madison,  
Wisconsin 53706, USA.  
NC HL55438 (NHLBI)  
SO Journal of biological chemistry, (1997 Oct 3) 272 (40) 25333-8.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199710  
ED Entered STN: 19971105  
Last Updated on STN: 19980206  
Entered Medline: 19971022

L5 ANSWER 54 OF 65 MEDLINE on STN  
AN 97361233 MEDLINE  
DN PubMed ID: 9218127  
TI Signal transduction in gastrointestinal smooth muscle.  
AU Makhlof G M; Murthy K S  
CS Department of Medicine and Physiology, Medical College of Virginia,  
Richmond 23298-0711, USA.  
NC DK15564 (NIDDK)  
DK28300 (NIDDK)  
SO Cellular signalling, (1997 May-Jun) 9 (3-4) 269-76. Ref: 92  
Journal code: 8904683. ISSN: 0898-6568.  
CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 199709  
ED Entered STN: 19970916  
Last Updated on STN: 20000303  
Entered Medline: 19970903

LS ANSWER 55 OF 65 MEDLINE on STN  
AN 97303862 MEDLINE  
DN PubMed ID: 9160164  
TI Gating of the skeletal calcium release channel by ATP is inhibited by protein phosphatase 1 but not by Mg<sup>2+</sup>.  
AU Sonnleitner A; Fleischer S; Schindler H  
CS Institute for Biophysics, University of Linz, Austria.  
NC HL 32711 (NHLBI)  
SO Cell calcium, (1997 Apr) 21 (4) 283-90.  
Journal code: 8006226. ISSN: 0143-4160.  
CY SCOTLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199707  
ED Entered STN: 19970812  
Last Updated on STN: 19980206  
Entered Medline: 19970729

LS ANSWER 56 OF 65 MEDLINE on STN  
AN 97192235 MEDLINE  
DN PubMed ID: 9040054  
TI Ontogeny of sarcoplasmic reticulum protein phosphorylation by Ca<sup>2+</sup>-calmodulin-dependent protein kinase.  
AU Xu A; Hawkins C; Narayanan N  
CS Department of Physiology, University of Western Ontario, London, Canada.  
SO Journal of molecular and cellular cardiology, (1997 Jan) 29 (1) 405-18.  
Journal code: 0262322. ISSN: 0022-2828.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199705  
ED Entered STN: 19970609  
Last Updated on STN: 19980206  
Entered Medline: 19970527

LS ANSWER 57 OF 65 MEDLINE on STN  
AN 97006132 MEDLINE  
DN PubMed ID: 8853426  
TI Regulation of extracellular calcium sensing in rat osteoclasts by femtomolar calcitonin concentrations.  
AU Zaidi M; Shankar V S; Adebanjo O A; Lai F A; Pazianas M; Sunavala G;  
Spielman A I; Rifkin B R  
CS Department of Internal Medicine, University of Arkansas for Medical Sciences, Little Rock, USA.  
NC R01-DE-09576 (NIDCR)  
R29-DE-10754 (NIDCR)  
SO American journal of physiology, (1996 Sep) 271 (3 Pt 2) F637-44.  
Journal code: 0370511. ISSN: 0002-9513.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199612  
ED Entered STN: 19970128  
Last Updated on STN: 20000303  
Entered Medline: 19961205

L5 ANSWER 58 OF 65 MEDLINE on STN  
AN 96301824 MEDLINE  
DN PubMed ID: 8732504  
TI Biochemical regulation of sarcoplasmic reticulum Cl- channel from human atrial myocytes: involvement of phospholamban.  
AU Decrouy A; Juteau M; Proteau S; Teijiera J; Rousseau E  
CS Department of Physiology and Biophysics, Faculty of Medicine, University of Sherbrooke, Quebec, Canada.  
SO Journal of molecular and cellular cardiology, (1996 Apr) 28 (4) 767-80.  
Journal code: 0262322. ISSN: 0022-2828.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199611  
ED Entered STN: 19961219  
Last Updated on STN: 19980206  
Entered Medline: 19961112

L5 ANSWER 59 OF 65 MEDLINE on STN  
AN 96106565 MEDLINE  
DN PubMed ID: 8529260  
TI **Phosphorylation** with protein kinases modulates calcium loading of terminal cisternae of sarcoplasmic reticulum from skeletal muscle.  
AU Mayrleitner M; Chandler R; Schindler H; Fleischer S  
CS Department of Molecular Biology, Vanderbilt University, Nashville, Tennessee, USA.  
NC HL 32711 (NHLBI)  
HL46681 (NHLBI)  
SO Cell calcium, (1995 Sep) 18 (3) 197-206.  
Journal code: 8006226. ISSN: 0143-4160.  
CY SCOTLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Space Life Sciences  
EM 199601  
ED Entered STN: 19960220  
Last Updated on STN: 19980206  
Entered Medline: 19960129

L5 ANSWER 60 OF 65 MEDLINE on STN  
AN 96066663 MEDLINE  
DN PubMed ID: 7578101  
TI Binding sites of monoclonal antibodies and dihydropyridine receptor alpha 1 subunit cytoplasmic II-III loop on skeletal muscle triadin fusion peptides.  
AU Fan H; Brandt N R; Peng M; Schwartz A; Caswell A H  
CS Department of Molecular and Cellular Pharmacology, University of Miami School of Medicine, Florida 33136, USA.  
NC 5R37HI43231-05 (NHLBI)  
PO1HL22619 (NHLBI)  
SO Biochemistry, (1995 Nov 14) 34 (45) 14893-901.  
Journal code: 0370623. ISSN: 0006-2960.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199512  
ED Entered STN: 19960124  
Last Updated on STN: 20000303  
Entered Medline: 19951218

L5 ANSWER 61 OF 65 MEDLINE on STN  
AN 95215845 MEDLINE  
DN PubMed ID: 7701323  
TI Rapid adaptation of cardiac ryanodine receptors: modulation by Mg<sup>2+</sup> and phosphorylation.

AU Valdivia H H; Kaplan J H; Ellis-Davies G C; Lederer W J  
CS Department of Physiology, University of Maryland Medical School, Baltimore  
21201, USA.  
NC HL25675 (NHLBI)  
HL30315 (NHLBI)  
HL36974 (NHLBI)  
+  
SO Science, (1995 Mar 31) 267 (5206) 1997-2000.  
Journal code: 0404511. ISSN: 0036-8075.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Space Life Sciences  
EM 199504  
ED Entered STN: 19950510  
Last Updated on STN: 19980206  
Entered Medline: 19950428

L5 ANSWER 62 OF 65 MEDLINE on STN  
AN 95161597 MEDLINE  
DN PubMed ID: 7858121  
TI **Phosphorylation** modulates the function of the calcium release channel of sarcoplasmic reticulum from skeletal muscle.  
AU Hain J; Nath S; Mayrleitner M; Fleischer S; Schindler H  
CS Institute for Biophysics, University of Linz, Austria.  
NC HL32711 (NHLBI)  
SO Biophysical journal, (1994 Nov) 67 (5) 1823-33.  
Journal code: 0370626. ISSN: 0006-3495.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199503  
ED Entered STN: 19950404  
Last Updated on STN: 19980206  
Entered Medline: 19950322

L5 ANSWER 63 OF 65 MEDLINE on STN  
AN 95138169 MEDLINE  
DN PubMed ID: 7836435  
TI **Phosphorylation** modulates the function of the calcium release channel of sarcoplasmic reticulum from cardiac muscle.  
AU Hain J; Onoue H; Mayrleitner M; Fleischer S; Schindler H  
CS Institute for Biophysics, University of Linz, Austria.  
NC HL 46681 (NHLBI)  
HL32711 (NHLBI)  
SO Journal of biological chemistry, (1995 Feb 3) 270 (5) 2074-81.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199503  
ED Entered STN: 19950314  
Last Updated on STN: 19970203  
Entered Medline: 19950302

L5 ANSWER 64 OF 65 MEDLINE on STN  
AN 92234981 MEDLINE  
DN PubMed ID: 1349013  
TI **Phosphorylation of ryanodine receptors** in rat myocytes during beta-adrenergic stimulation.  
AU Yoshida A; Takahashi M; Imagawa T; Shigekawa M; Takisawa H; Nakamura T  
CS Department of Biology, Faculty of Science, Osaka University.  
SO Journal of biochemistry, (1992 Feb) 111 (2) 186-90.  
Journal code: 0376600. ISSN: 0021-924X.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)

LA English  
FS Priority Journals  
EM 199205  
ED Entered STN: 19920612  
Last Updated on STN: 19980206  
Entered Medline: 19920527

L5 ANSWER 65 OF 65 MEDLINE on STN  
AN 91201274 MEDLINE  
DN PubMed ID: 1849885  
TI Regulation of the cardiac **ryanodine receptor** by  
protein kinase-dependent **phosphorylation**.  
AU Takasago T; Imagawa T; Furukawa K; Ogurusu T; Shigekawa M  
CS Department of Molecular Physiology, National Cardiovascular Center  
Research Institute, Osaka.  
SO Journal of biochemistry, (1991 Jan) 109 (1) 163-70.  
Journal code: 0376600. ISSN: 0021-924X.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199105  
ED Entered STN: 19910607  
Last Updated on STN: 19980206  
Entered Medline: 19910523